MARC BARNES TRANSPORT PTY LTD

NT EPA EPL No

Environmental Management Plan

Title	NORTHERN TERRITORY ENVIRONMENTAL MANAGEMENT PLAN
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1 INTRODUCTION

1.1 Objectives

This Environmental Management Plan (EMP) sets out the environmental management of listed waste transport operations by MARC BARNES TRANSPORT PTY LTD. This EMP identifies the environmental risks associated with waste transport operations and outlines specific objectives and targets for minimising the potential for environmental harm. It outlines the context of the legislative requirements and the roles and responsibilities of MARC BARNES TRANSPORT PTY LTD personnel for environmental management. This EMP should be treated as a dynamic document subject to annual review, updating and improvement, and forms the basis for environmental auditing.

1.2 Contact details and responsibilities

Business Name:	MARC BARNES TRANSPORT PTY LTD
Entity Name:	MARC BARNES TRANSPORT PTY LTD
ABN:	**27658174335**
Business Address:	17 Erin Drive King Creek, NSW 2446
Postal Address	As Above
Phone No. (business hours)	0417 107 141
Director:	Marc Barnes
Phone No.	0417 107 141
Email:	mbarnestransport@outlook.com.au

Emergency Contacts	
Director:	Marc Barnes
Phone No.	0417 107 141
Operations:	Marc Barnes
Phone No.	0417 107 141

1.3 Environment Protection Licence

As a commercial operation transporting listed wastes, MARC BARNES TRANSPORT PTY LTD requires an Environment Protection Licence (EPL) under Schedule 2 of the NT *Waste Management and Pollution Control Act*. The EPL outlines a number of conditions MARC BARNES TRANSPORT PTY LTD must meet in order to be compliant and is administered by the NT Environment Protection Authority (NT EPA).

1.4 Legal and other obligations

In regard to the environment, activities undertaken by MARC BARNES TRANSPORT PTY LTD are governed by a range of Commonwealth and Northern Territory legislation, policies, and guidelines, which include (but not limited to) the following:

- *Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)*
- *Bushfires Act*
- *Dangerous Goods Act*
- *Dangerous Goods (Storage and Handling) Regulations 2000 (NT)*
- *Environmental Offences and Penalties Act*

- *National Environment Protection Council (NT) Act*
- *Public and Environmental Health Act*
- *Road Transport Reform (Dangerous Goods) Act 1995 (Cwlth)*
- *Waste Management and Pollution Control Act*
- *Water Act*
- *Workplace Health and Safety Act and Regulations*
- *Environment Protection and Biodiversity Conservation (EPBC) Act 1999*

2 WASTE REMOVAL OPERATIONS

Waste removal operations include the transport via b Double or road train of Waste mineral oils unfit for their original intended use, Waste mixtures, or waste emulsions, of oil and water or hydrocarbon and water, Frac water and Organic solvents excluding halogenated solvents which are classified as 'listed waste' types under the NT *Waste Management and Pollution Control Act*.

2.1 Waste collection

Waste material to be collected from licensed clients/Sites in WA and/or Northern Territory are either hazardous or non-hazardous substances – Non-Dangerous Good or Dangerous Goods classified *according to the criteria of ADG*.

2.2 Volumes

The approximate waste volumes to be transported per year are detailed in Table 2-1.

Table 2-1. Approximate waste volumes to be transported per year.

Waste Type	Estimated total quantity per year	Destination
Waste mineral oils unfit for their original intended use	500,000L	Licensed Facility QLD Licensed Facility NT
Waste mixtures, or waste emulsions, of oil and water or hydrocarbon and water	500,000L	Licensed Facility QLD Licensed Facility NT Licensed Facility WA
Organic solvents excluding halogenated solvents	500,000 L	Licensed Facility NT Licensed Facility WA
Frac water	500,000 L	Licensed Facility NT

2.3 Handling

When managing dangerous goods, personnel must ensure as far as practicable that the goods are handled in accordance with good industrial hygiene and safety practice, in a manner that will not cause harm to a person or damage to property. Personnel must use appropriate PPE; avoid contact with skin, eyes, and clothing; wash hands after use; avoid creating/inhaling dust/vapor's and ensure there is adequate ventilation.

2.4 Transport

Transport will be conducted according to The Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code) 7.9, which is intended to:

- Set out the obligations of persons involved in the transport of dangerous goods on land.
- Reduce, as far as practicable, the risks of personal injury, death, property damage and environmental harm arising from the transport of dangerous goods on land.
- Give effect to the standards, requirements and procedures of the Australian Code for the Transport of Dangerous Goods by Road and Rail (7.9 edition) as far as they apply to the transport of dangerous goods on land.
- Promote consistency between the standards, requirements and procedures applying to the transport of dangerous goods by land transport and other modes of transport.

2.5 Documentation

The transporter must carry documentation for any dangerous goods that comply with the *ADG Code*. Documentation must contain:

- The consignor's name and telephone number
- A description of the dangerous goods in accordance with the *ADG Code:*
    - The UN number of the goods
    - The proper shipping name of the goods or name of the good that appears on the packaging, article, or receptacle in which it is contained.
    - The Class or Division of the goods
    - Each Subsidiary Hazard (if any)
    - A description of each type of package or other receptacle to be transported, i.e., "IBC." "BULK."
    - The number of packages or receptacles of each type to be transported
    - The aggregate quantity of the goods.

2.6 Vehicles and equipment

Transport operations will use trucks and/or trailers that comply with safety standards defined in the *ADG Code for* transporting of dangerous goods*.*

In general, the vehicles must:

- Be suitable for the transport of dangerous goods.
- Be free from any defect that is likely to create risk in transporting the goods.
- Be clean.

Any equipment that is on the vehicle and that is used in loading/unloading the dangerous goods on/off the vehicle must be suitable for that purpose and be free of any defect that is likely to increase the risk in loading or unloading the goods.

3 WASTE TRANSPORT MODEL

A waste transport model has been developed to identify key sources, pathways and receptors of potential contaminants and include the following considerations:

- Potential contaminants
- Inferred sources.
- Pathways and mechanisms for transport
- Potential sensitive receptors.

3.1 Potential contaminants

The potential contaminants of concern that may be present during transport operations include:

- Solvents – Hydrocarbon mixtures
- Waste oil – mixed contaminants.

3.2 Pathways and transport

Uncontrolled discharges to surface waters, and vertical migration through watercourses and soil into groundwater as a result of a spill.

Accidental fire leads to smoke emissions and potential airborne chemical particles. If a spill were to occur, depending on where along the route it occurred, the receiving environments may include roadside flora and fauna habitats, surface waterways, groundwater, and/or roadside residences/properties. Potential receptors affected by discharges from a spill associated with these environments would include terrestrial and aquatic flora and fauna, domestic livestock, and/or human health.

4 ENVIRONMENTAL RISK ASSESSMENT

The potential environmental risks associated with operational activities have been assessed. The likelihood and consequence categories adopted in the aspects and impacts register are provided in Table 4-1 and Table 4-2, and have been combined to derive an overall risk rating using the matrix in Table 4-3. The environmental risk assessment table is included as Table 4-4.

Table 4-1. Likelihood categories

Categories	Score	Likelihood Description
Remote	1	Never heard of, but not impossible
Rare	2	Highly unlikely; will only occur in exception circumstances
Unlikely	3	Could occur at some time, but unlikely
Moderate	4	Might occur at some stage; has previously occurred
Likely	5	Known to occur or will probably occur; has occurred several times
Almost certain	6	Common or repeating occurrence; is expected to occur in most circumstances

Table 4-2. Consequence categories

Categories	Score	Consequence Description
Negligible	0	No/low measurable impact on the environment
Minor	1	Some, minor, temporary environmental impact
Moderate	2	Contained temporary, or permanent minor, localised environmental damage
Severe	3	Wider and longer-term environmental impacts
Major	4	Very serious impact with long-term environmental damage
Catastrophic	5	Environmental disaster

Table 4-3. Risk matrix

		Consequence					
		0	**1**	**2**	**3**	**4**	**5**
Likelihood	**6**	Negligible (0)	Low (6)	Moderate (12)	High (18)	Extreme (24)	Extreme (30)
	5	Negligible (0)	Low (5)	Moderate (10)	High (15)	Extreme (20)	Extreme (25)
	4	Negligible (0)	Low (4)	Moderate (8)	Moderate (12)	High (16)	Extreme (20)
	3	Negligible (0)	Low (3)	Low (6)	Moderate (9)	Moderate (12)	High (15)
	2	Negligible (0)	Low (2)	Low (4)	Low (6)	Moderate (8)	Moderate (10)
	1	Negligible (0)	Low (1)	Low (2)	Low (3)	Low (4)	Low (5)

Table 4-4. Environmental risk assessment

Aspect	Potential impact	Initial risk			Management and mitigation controls (overview)	Residual risk		
		L/hood	Cons	Risk		L/hood	Cons	Risk
Fire on transport vehicle	Waste containing flammable and combustible material and the increased risk of starting a fire – leading to damage of vehicle and surrounding environment	3	3	**Mod (9)**	• Emergency response plan and procedures in place • Appropriate firefighting equipment kept and maintained in vehicles. • Appropriate hazardous substance storage and handling procedures in place	2	2	**Low (4)**
Spills of dangerous goods or hazardous substances	Unsafe handing or transport operations causing contamination of soils, land, surface water and/or groundwater in receiving environment	3	2	**Low (6)**	• Training and site inductions provided to all employees. • Visual inspect condition of trailers prior to loading. • Appropriate hazardous substance handling, storage, and transport procedures • Spill kits will be onsite and in vehicles, adequately sized and stocked to respond to a spill if required. • Following the 3 C's (contain, communicate, clean-up)	2	1	**Low (2)**
Movement of vehicles and equipment	Spread of weeds	3	2	**Low (6)**	• All vehicles undertake visual weed hygiene inspections. • All vehicles remain on designated roads/tracks during operations.	2	1	**Low (2)**

5 ENVIRONMENTAL MANAGEMENT

This EMP provides a consolidated plan for environmental management to mitigate the environmental risks identified in Section 4. Table 5-1 identifies the potential impacts of transport operations on the environment and includes environmental objectives, management and mitigation measures, performance criteria and target indicators, corrective actions and contingencies, monitoring and reporting and record-keeping mechanisms for each aspect.

5.1 Table of provisions

Table 5-1. Environmental management summary

Aspect	POTENTIAL IMPACT	OBJECTIVE / OUTCOME	MANAGEMENT ACTION	TARGET / PERFORMANCE INDICATOR	MONITORING	Corrective actions and contingencies	Reporting and record-keeping
Transport and handling of Hazardous/ Non-Hazardous and Dangerous / Non-Dangerous goods.	• Spills of hazardous substances • Contamination of land, soil, surface, and/or groundwater	No contamination of land, soil, surface water or ground water as a result of hazardous substance spill or poor handling	• Training and induction provided to all employees. • Appropriate spill kits kept in vehicles, and stocked	• No indication of spills of hazardous substances • Any spill of stored product is contained and remediated through the spill response procedure.	Regular inspection of waste transport vessel prior to and during transport	• Review Transport and handling practices. • Increase the number, capacity, or type of spill kit materials	• Incident reporting records • Reporting through Annual return • Chemical and SDS register maintained
	• Transport of flammable and combustible waste increasing fire risk - leading to damage of vehicle and surrounding environment	No fire caused by transport operations	• Emergency response plan and procedures in place • Appropriate firefighting equipment kept and maintained in vehicles	• No fires started within transport vehicles	Regular inspection of waste materials and firefighting equipment	• Review hazardous substance transport practices. • Increase the number or type of firefighting equipment available. • Review emergency response plans	• Inspection records • Incident reporting records
Movement of vehicles and equipment	Spread of weeds	• To prevent the spread of established weeds off transport sites. • To prevent introduction of new weed species to transport sites	• Inspections of vehicles for weed hygiene compliance. • Vehicles cleaned of any plant material and other organic matter in designated washdown area at any purpose- built facility	• No increase in the distribution of existing weed species • No introduction of new weed species	Inspections of vehicles prior to departing and at arrival onsite.	Review weed control activities and frequency	• Inspection records • Incident reporting records

5.2 Roles and responsibility

Unless otherwise specified, the Director is responsible for ensuring that MARC BARNES TRANSPORT PTY LTD is operating under the conditions in the EPL, and that this EMP is being implemented effectively, to ensure no environmental harm is being done.

Employees of MARC BARNES TRANSPORT PTY LTD must adhere to all conditions in the EPL and requirements of this EMP.

5.3 Inductions and communication

All personnel and subcontractors will be required to undertake an induction, which will include details on the EPL and this EMP.

MARC BARNES TRANSPORT PTY LTD staff will hold regular meetings to discuss any concerns regarding the MARC BARNES TRANSPORT PTY LTD operations. The Director is to report any incidents to the NT EPA as soon as possible, within 24 hours of the incident occurring.

5.4 Stakeholder consultation

External stakeholders relevant to this EMP and waste transport operations include:

- Waste generating sites engaging MARC BARNES TRANSPORT PTY LTD services.
- Listed waste storage and/or disposal sites.
- NT EPA (as regulator and compliance monitoring of EPL)

Consultation with stakeholders is undertaken directly through written (letters, emails) or verbal communication (meetings, phone calls).

5.5 Complaints register

MARC BARNES TRANSPORT PTY LTD will keep a complaints register that details the reason/type of complaint and mitigation measures put in place if required. The complaints register will record the following details:

- Date and time of complaint.
- Method by which a complaint was made (i.e., telephone, letter, meeting, etc.)
- Name, address, contact telephone number of complainant.
- Details of complaint
- Action taken in response to the complaint, including follow-up contract with the complainant.
- Any monitoring to confirm the complaint has been satisfactorily resolved.
- If no action was taken, the reason for no action being taken.

5.6 Inspections, audits and reporting

5.6.1 Inspections and audits

Inspection of waste material for transport and inspections of the transport vehicles are to be undertaken by the vehicle operator. Visual inspections will cover all environmental aspects as outlined in this EMP as an operational requirement and are only documented as part of pre-trip inspections.

MARC BARNES TRANSPORT PTY LTD will undertake a transport audit on an annual basis, to evaluate the extent to which compliance has been achieved with the EPL.

5.6.2 Non-conformance and corrective actions

Where an inspection or audit identifies non-conformances, corrective or preventative actions that need to be addressed, these will be recorded in an action register and issued to the responsible person for rectification. The action register will detail the non-conformances, identified actions, responsible persons, and due date for completion.

Non-compliance with the EPL will be managed as per Section 5.6.3 and 5.7.

5.6.3 Incidents

All environmental incidents, near-misses or EPL non-compliances must be reported to MARC BARNES TRANSPORT PTY LTD as soon as practicable. Reports can be made verbally but must be followed up with a written report. Incident reports must contain the following information:

- Date, time and circumstance under which the incident became known.
- Known or estimated dates and times at which the incident commenced and ended.
- Details of the person initially reporting the incident.
- Actual and potential causes and contributing factors to the incident.
- Risk of environmental harm arising from the incident.
- Actions that have or will be undertaken to mitigate any environmental harm.
- Corrective actions that have or will be undertaken to prevent the incident happening again.
- If no action was taken, why no action was taken.

Depending on the area and severity of the incident, testing of soils and/or surface water for contamination may be necessary. This should be conducted upon advice from the NT EPA or other relevant environmental authority.

MARC BARNES TRANSPORT PTY LTD will investigate each incident in order to discover the cause(s) of the incident and implement improvements and training in order to prevent a repeat incident.

A record of all environmental incidents, near-misses and EPL non-compliances will be maintained in an environmental incident register and reported to the NT EPA, if required.

5.7 Reporting and review

5.7.1 Internal

This EMP is a working document and will be updated when required. The EMP will also be reviewed at least annually by the anniversary date of the EPL.

5.7.2 External

MARC BARNES TRANSPORT PTY LTD will report any non-compliance with the EPL by completing a Non-Compliance Notification via the NT EPA website as soon as practicable after (and in any case within 24 hours after) first becoming aware of the event.

An Annual Return will be submitted to the NT EPA on the anniversary date of the EPL to summarise the activities and outcomes of the previous 12 months, and an assessment of any environmental impacts from the MARC BARNES TRANSPORT PTY LTD operations.

6 EMERGENCY RESPONSE PLAN

Emergency response planning includes responses to environmental emergencies, and operational actions that cause an environmental incident. This Emergency Response Plan outlines the environmental emergency risks, emergency preparedness, mitigation and reporting requirements specifically relating to environmental incidents for MARC BARNES TRANSPORT PTY LTD.

6.1 Emergency incidents

Emergency incidents that may occur within MARC BARNES TRANSPORT PTY LTD include:

- **Extreme weather event** resulting in damage to MARC BARNES TRANSPORT PTY LTD equipment.
- **Lightning strike** that may impact on waste transport operations, or even ignite dangerous goods.
- **Oil or chemical spill** that may contaminate water or soil.
- **Fire** as a result of bushfire or accidental fire as a result of operations.

6.2 Emergency contacts

The Director is the contact person for all emergencies and environmental incidents. All incidents which cause or have the potential to cause material or serious environmental harm, will be reported to the NT EPA within 24 hours as required under Section 14 of the NT *Waste Management and Pollution Control Act*.

The details of the designated contact persons responsible for environmental management are included in Table 6-1. Also included are emergency contacts for reporting pollution incidents (including non-urgent problems such as dust/noise) and contacts for provision of advice.

Table 6-1. Emergency contact details

Contact	Details
Director	Marc Barnes Mobile 0414 107 141 Email: mbarnestransport@outlook.com.au
Operations and Admin	Marc Barnes Mobile 0414 107 141 Email: mbarnestransport@outlook.com.au
NT EPA Pollution Hotline / Pollution Reporting	GPO Box 3675, Darwin NT, 0801 Pollution Hotline: 1800 064 567 pollution@nt.gov.au
NT Police	131 444

6.3 Objectives, targets, and indicators of the Emergency Response Plan

The objectives, targets, and indicators of this Emergency Response Plan are summarised in Table 6-2.

Table 6-2. Emergency objectives, targets, and indicators summary

Objectives	Targets	Indicators
• Protect people, property, and the environment	• No incidents of harm to people, property, or the environment from activities associated with an environmental emergency	• Number of incidents recorded
• Identify potential environmental emergency risks	• All risks identified and management controls are in place	• Audits and inspection findings
• Identify and implement management and mitigation controls to reduce the residual risk		
• Ensure emergency response equipment requirements are. able to be identified and are available	• All risks are identified, and management controls are in place. • Emergency response scenarios have been identified	• Audits and inspection findings
• Ensure a high level of preparedness is maintained		
• Facilitate efficient response to emergencies to limit the impacts to the environment		
• Ensure emergency response training is relevant for the types of emergencies that Marc Barnes Transport Pty Ltd may experience	• Training for all employees	• Training records

6.4 Emergency response procedures

6.4.1 General emergency preparedness

MARC BARNES TRANSPORT PTY LTD commit to continuous emergency preparedness through the following actions:

- Ensure that all personnel including management have received an induction that specifically covers emergency response procedures.
- The Director regularly consults with staff to ensure that they are competent in responding to emergencies.
- Conduct regular inspections on all emergency response equipment and ensure that all equipment is in good working order.
- Following an emergency event, undertake an incident debrief and provide all staff with training into improved emergency response procedures or actions.

When advice is issued by authorities (i.e., severe storm or bushfire warning, evacuation order, etc.), the Operations team will ensure that the following steps will be undertaken:

- All employees and contractors are informed and receive further instructions and information regarding preparations for the emergency or evacuation.
- Where there is sufficient preparation time:

- All essential and loaded vehicles will be fueled and parked on standby or relocated to a safe zone if required.
- All personnel will follow site instructions and directives.

Environmental conditions are monitored by the Operations teams through the Bureau of Meteorology website, NT Police, Fire and Emergency Services announcements, social media, and local radio emergency.

6.4.2 Spills response procedure

In the case of any spills the following procedure is to be implemented:

- Locate the source to identify volume and type of spill.
- Assess the risk to workers and environment to ensure appropriate PPE and measures to be implemented.
- Control and contain the spill by isolating or removing the source.
- Clean the spill using spill kit and absorbent material or installing bunds.
- Dispose of contaminated spill control material appropriately.
- Report significant spills or spills that have entered stormwater to NT EPA Pollution Hotline (1800 064 567).

Spill containment equipment kits will be available in works areas (including in waste transport vehicles). All personnel will be trained how to use these spill kits.

6.4.3 Fire on-board vehicle

In the event of a fire on-board the waste transport vehicle the following procedure is to be implemented:

- Pull the vehicle over in a safe location, preferably off the road in a paved or cleared area if available.
- Assess the risk to workers and environment to ensure appropriate PPE and measures to be implemented.
    - If safe to do so, extinguish the fire using appropriate firefighting equipment.
    - If it is unsafe to manage, call 000.